



# SPURS Seaglider Surveys

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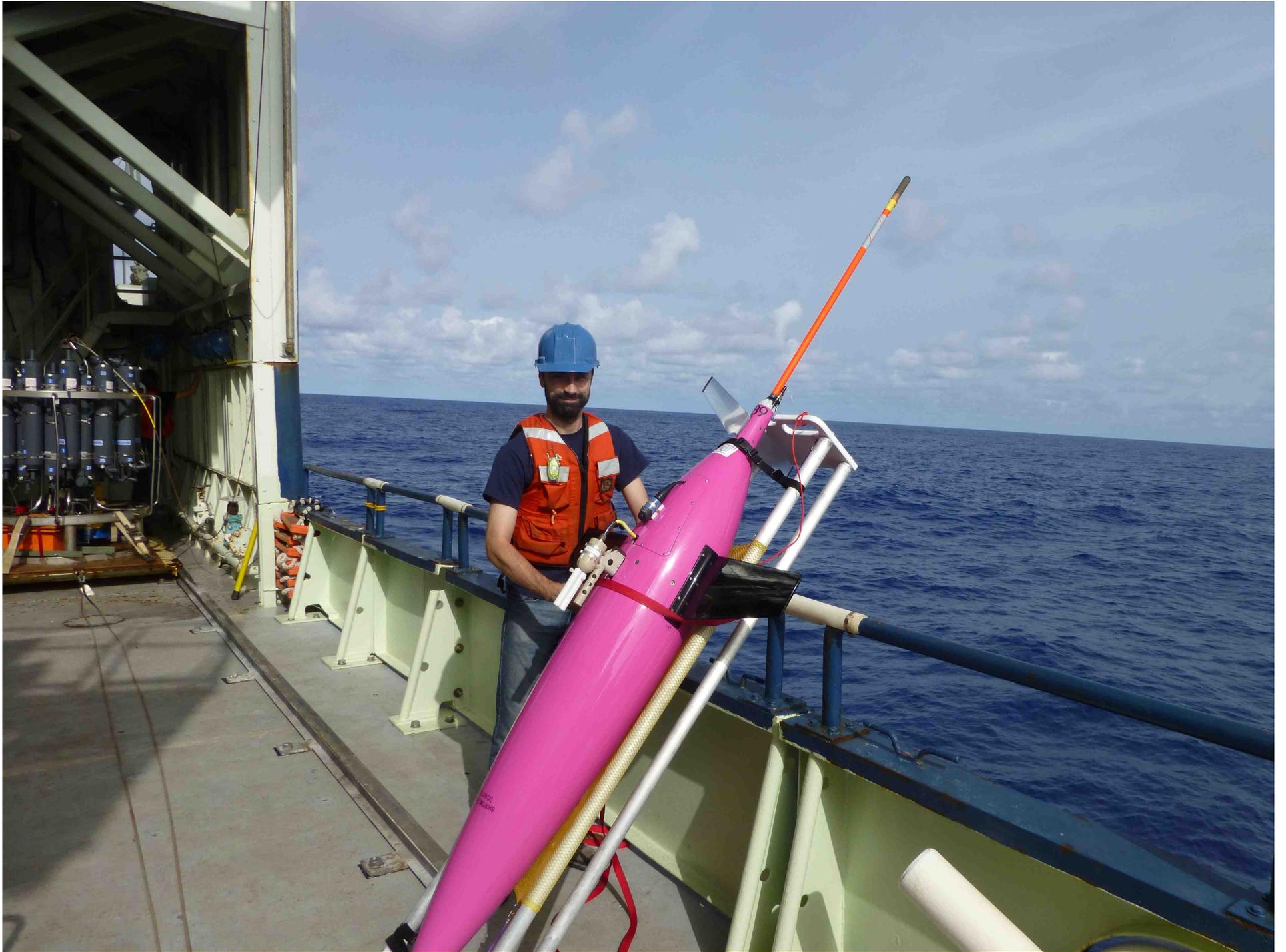
# Objectives

Survey upper 1 km over 200 km X 200 km region fortnightly for 6 months, then repeat

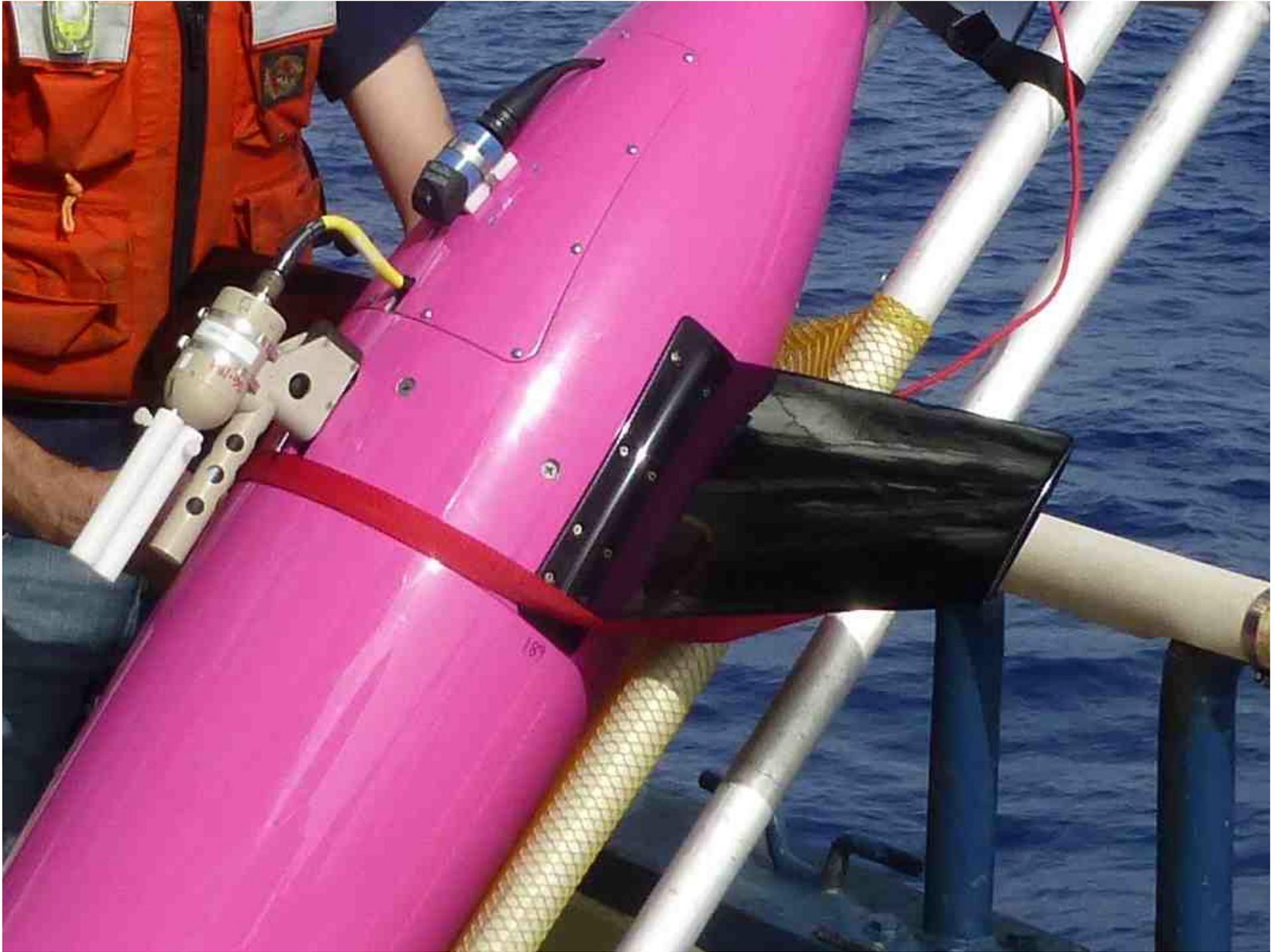
Estimate terms of the heat & fresh water budgets (local rate of change, horizontal advection, implied vertical advection, turbulent mixing)

# Sampling Plan

- 3 Seagliders operating simultaneously in 2 successive 6-month deployments
- 6 profiles daily to 1000 depth of T, S, ... & depth-averaged current
- 6 profiles daily to 250 m depth of microscale T
- Survey speed = 20 km/day
- Data sent via Iridium in near real time



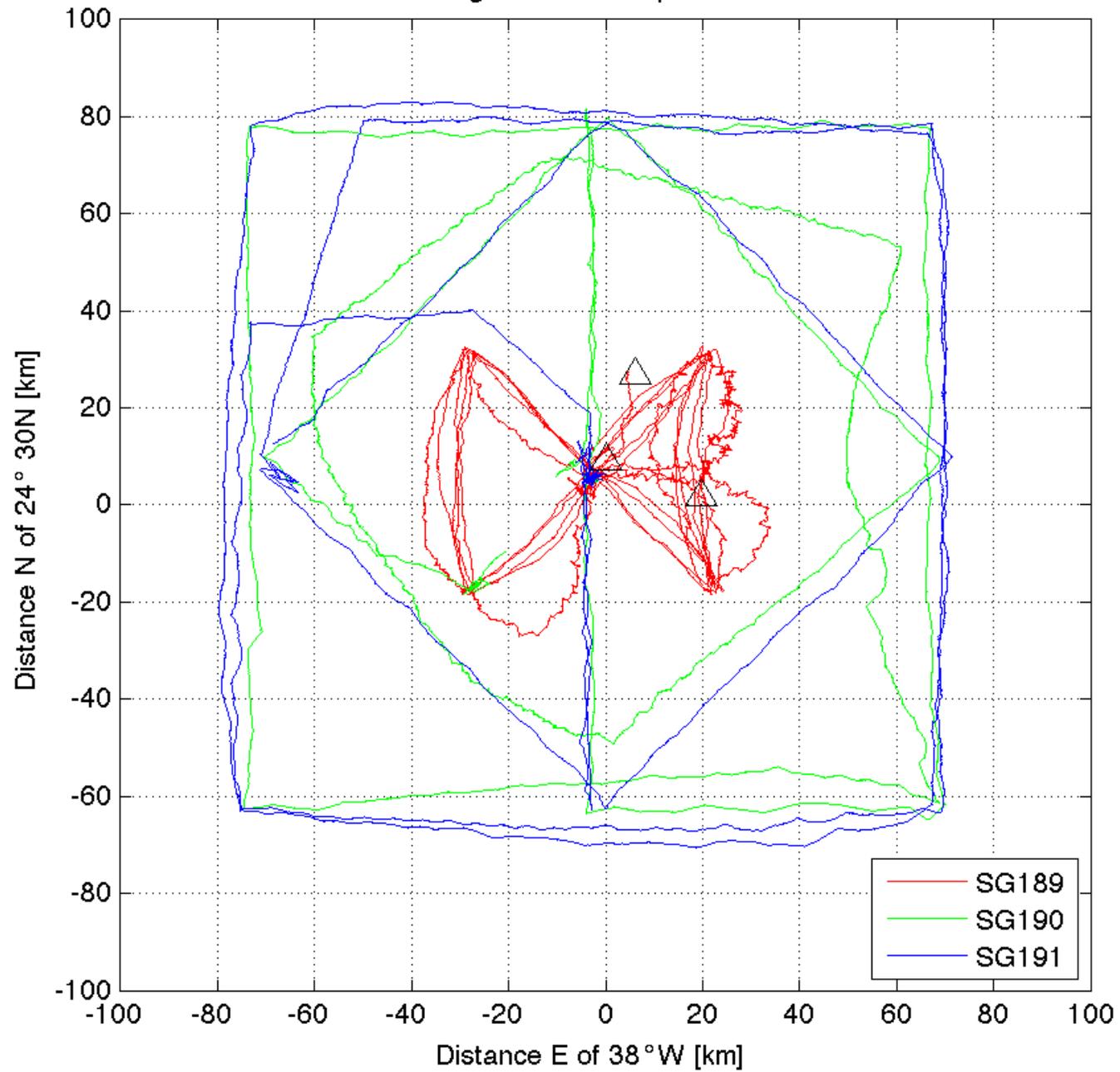




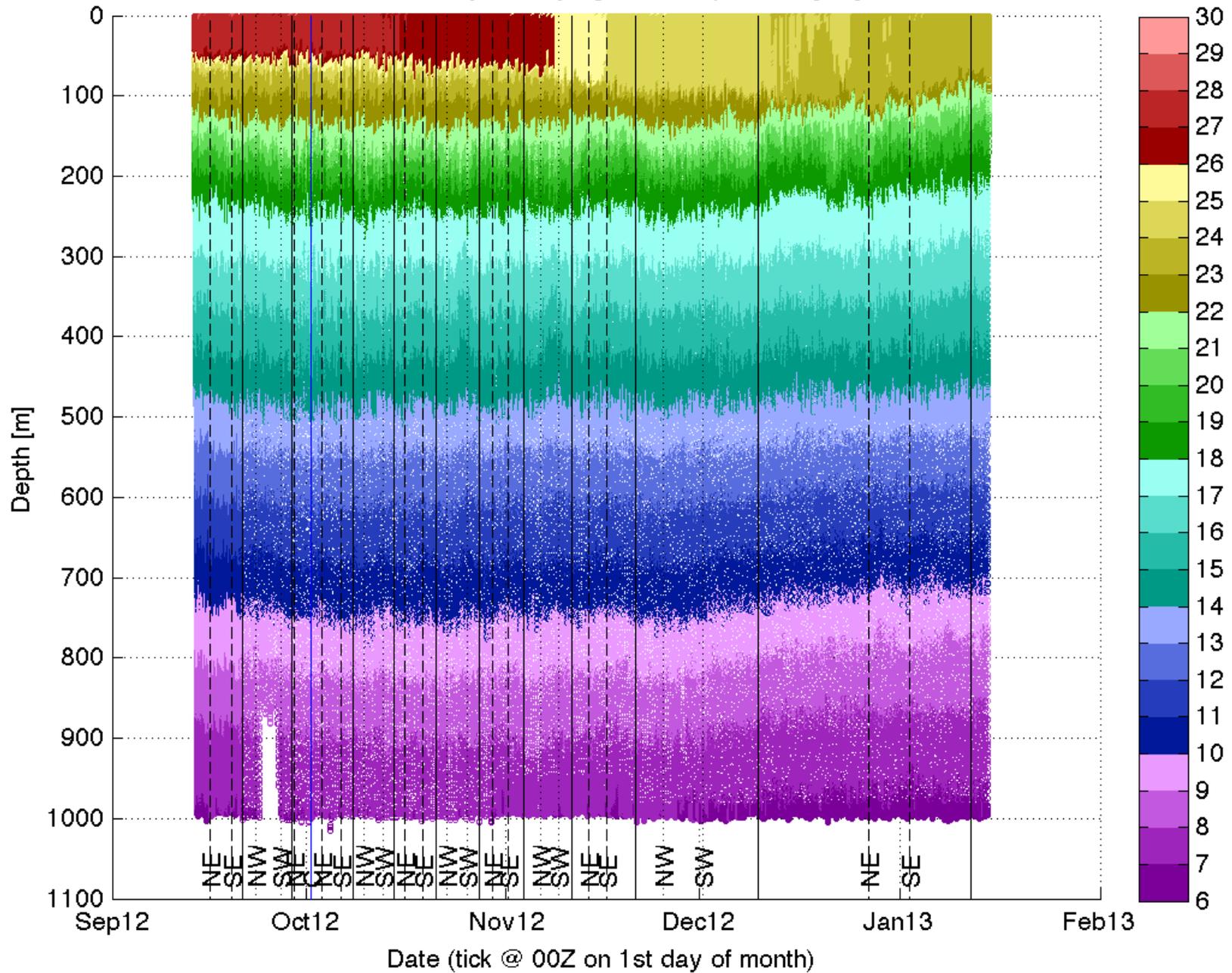




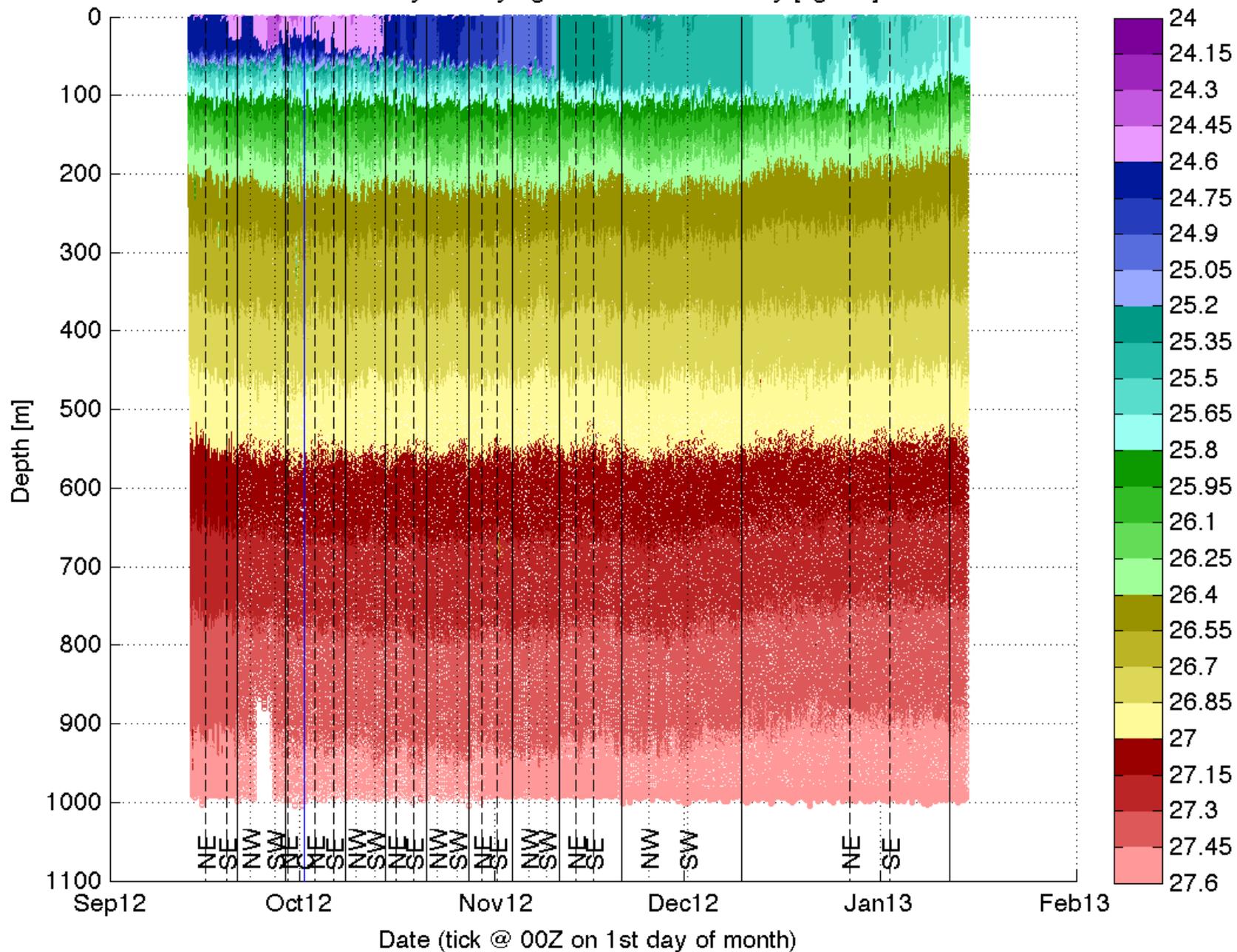
SPURS Seaglider tracks Sep 2012 - Jan 2013



SPURS Butterfly Survey sg189 Temperature [°C]

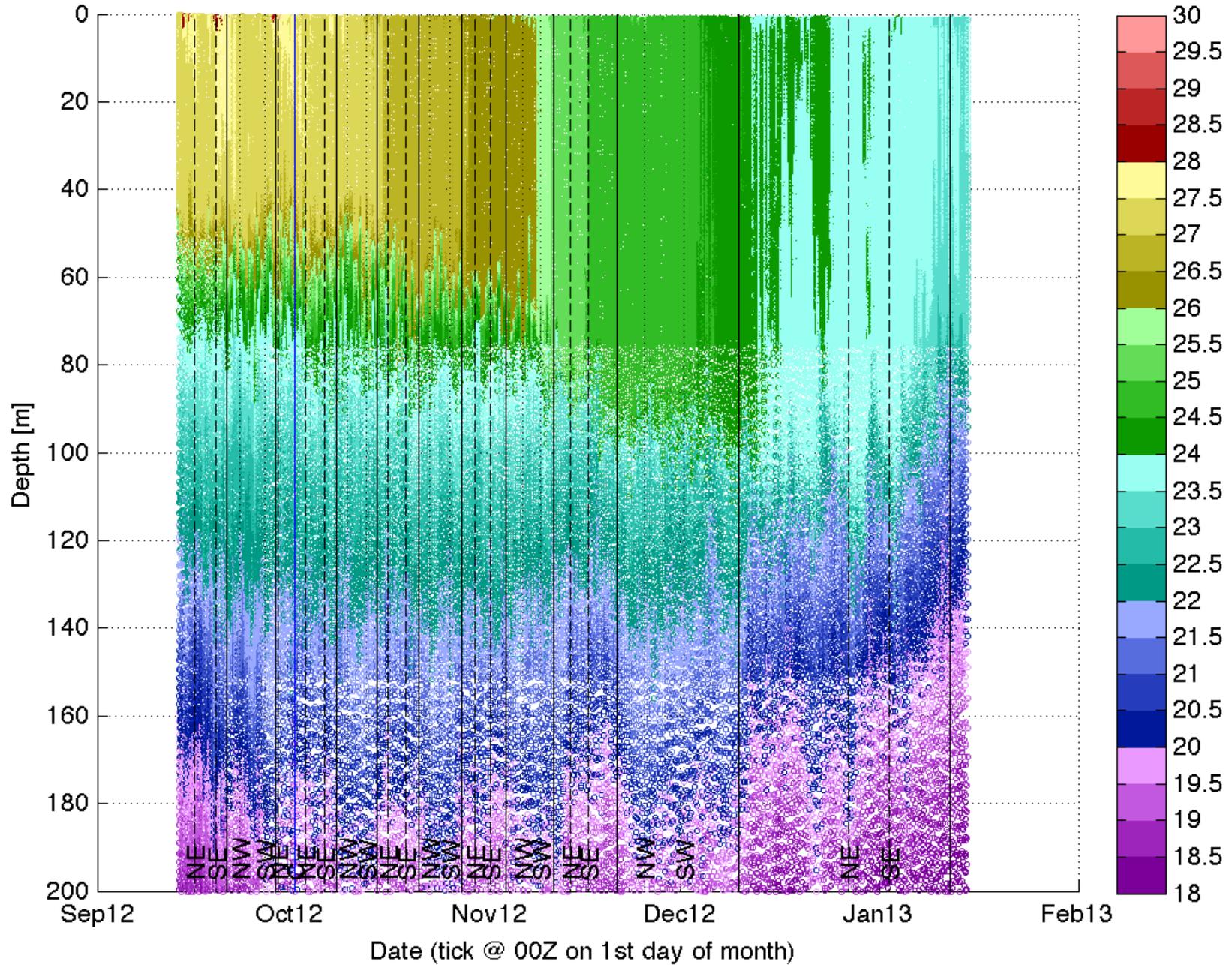


SPURS Butterfly Survey sg189 Potential Density [ $\text{kg/m}^3$ ]

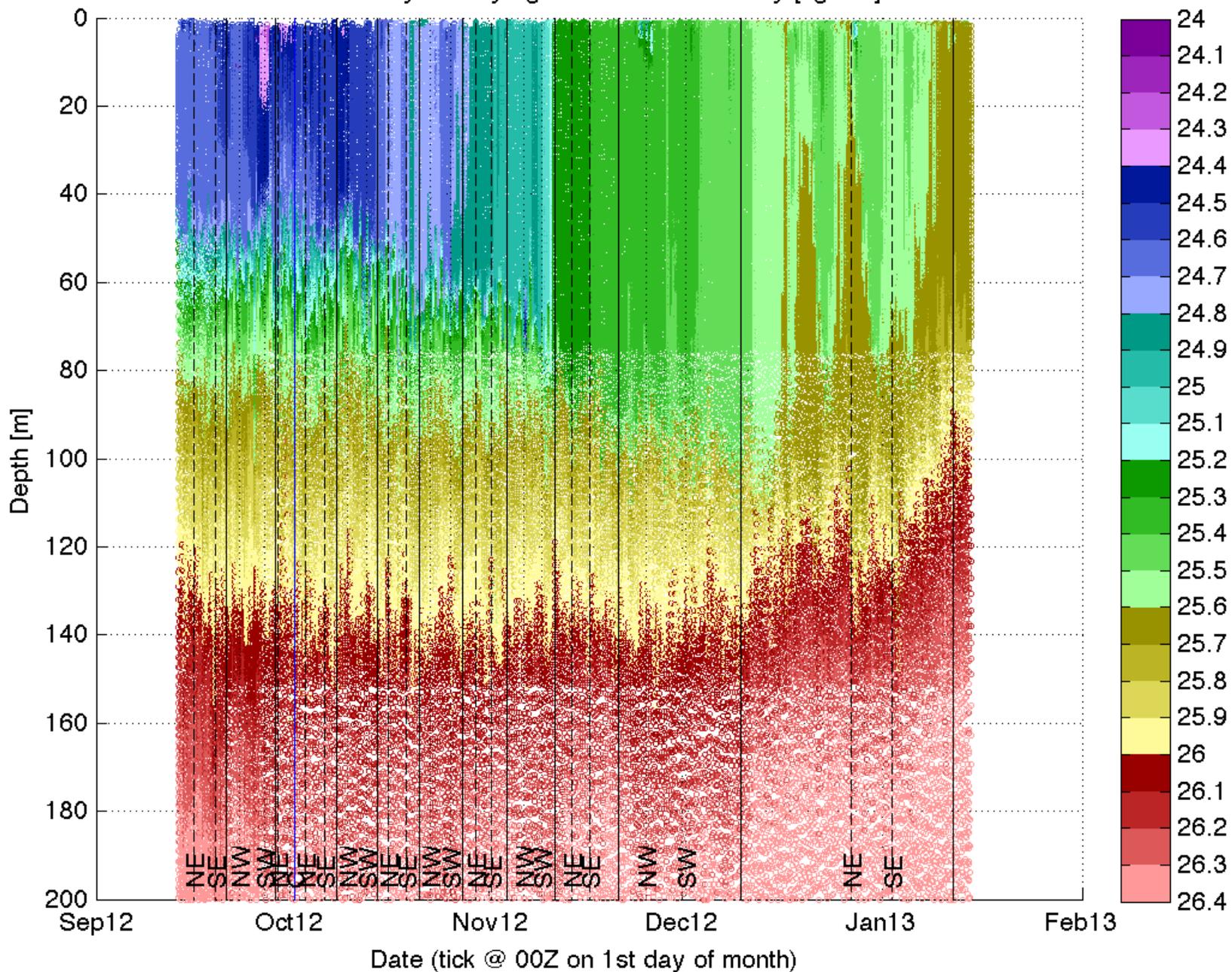




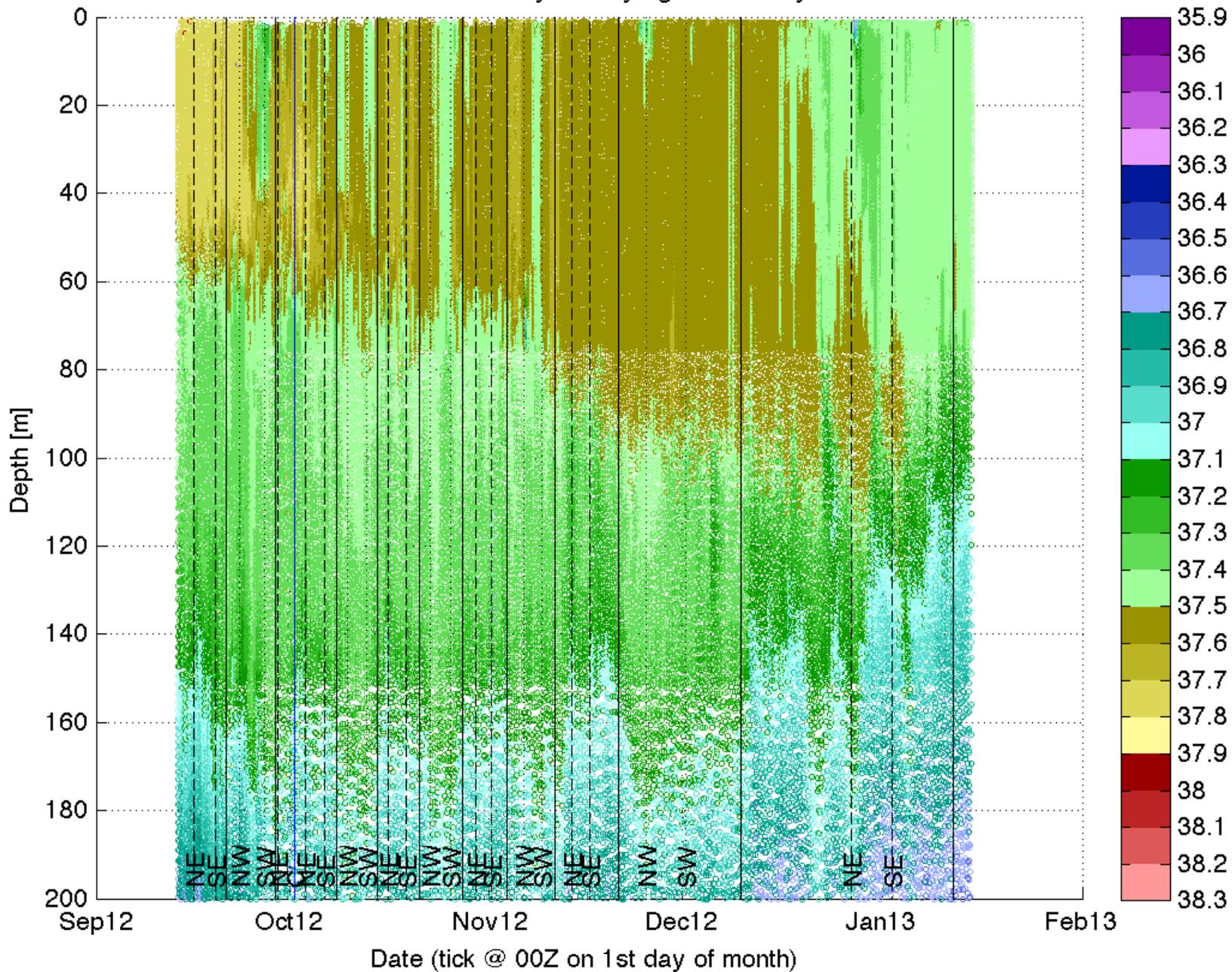
SPURS Butterfly Survey sg189 Temperature [°C]



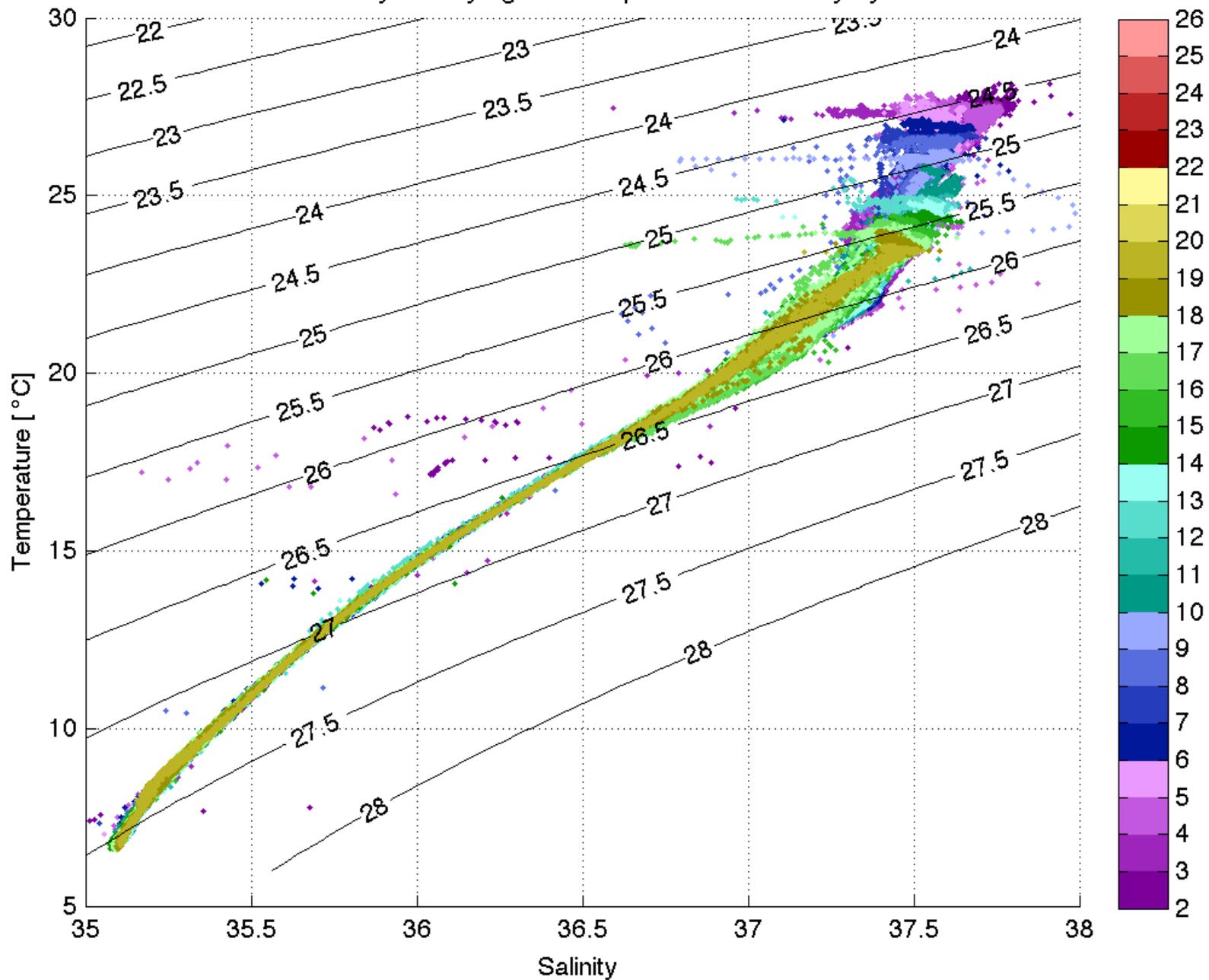
SPURS Butterfly Survey sg189 Potential Density [ $\text{kg/m}^3$ ]



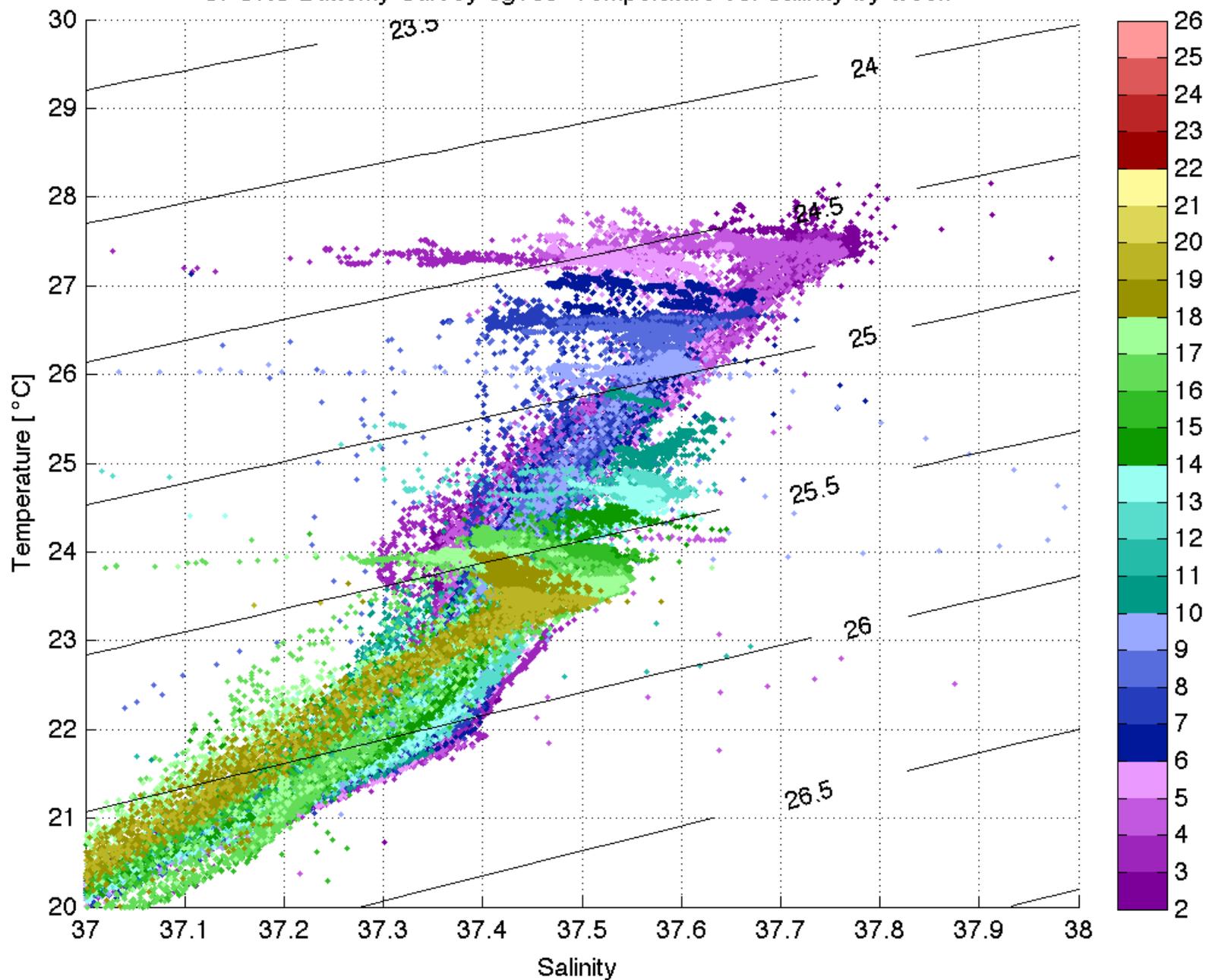
### SPURS Butterfly Survey sg189 Salinity

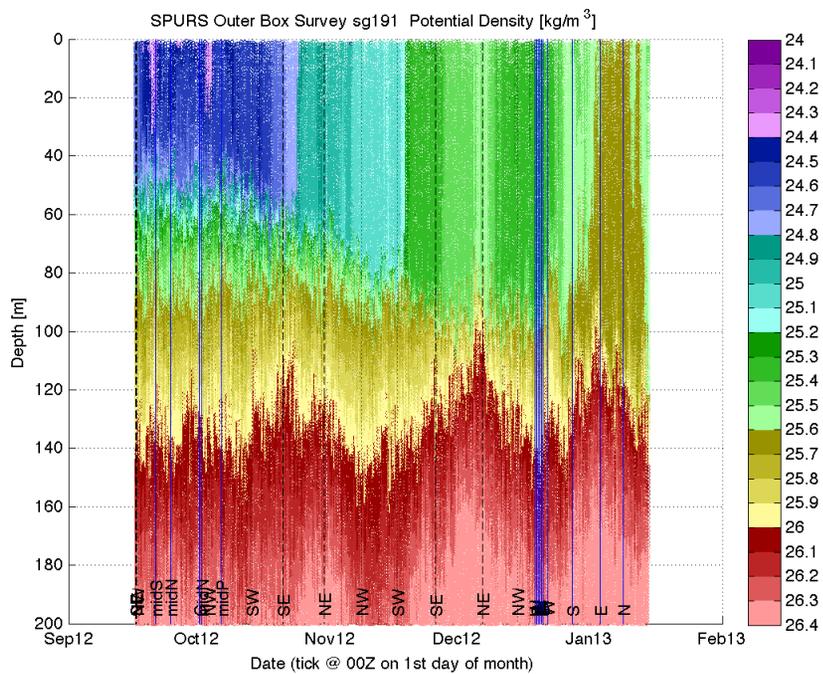
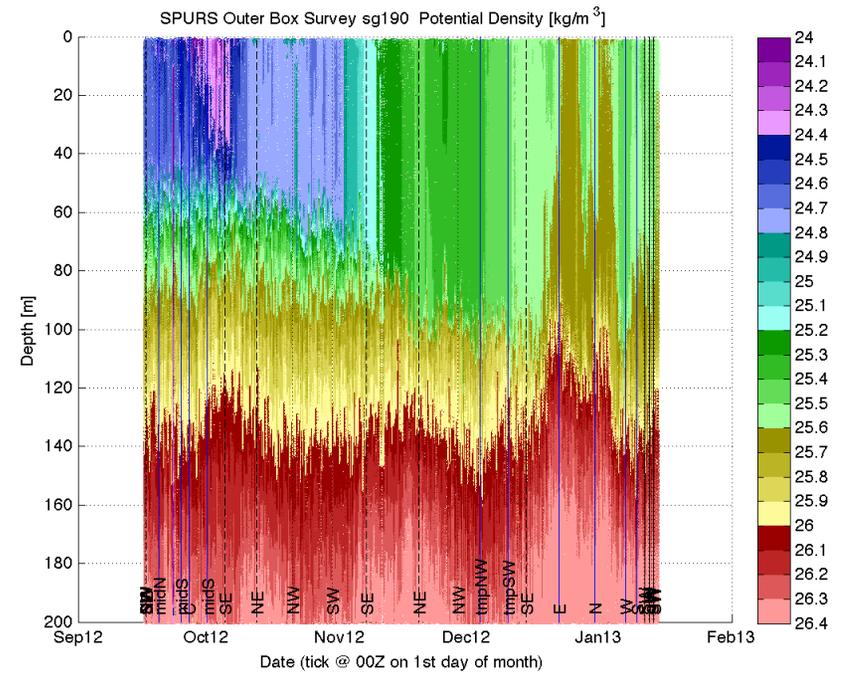
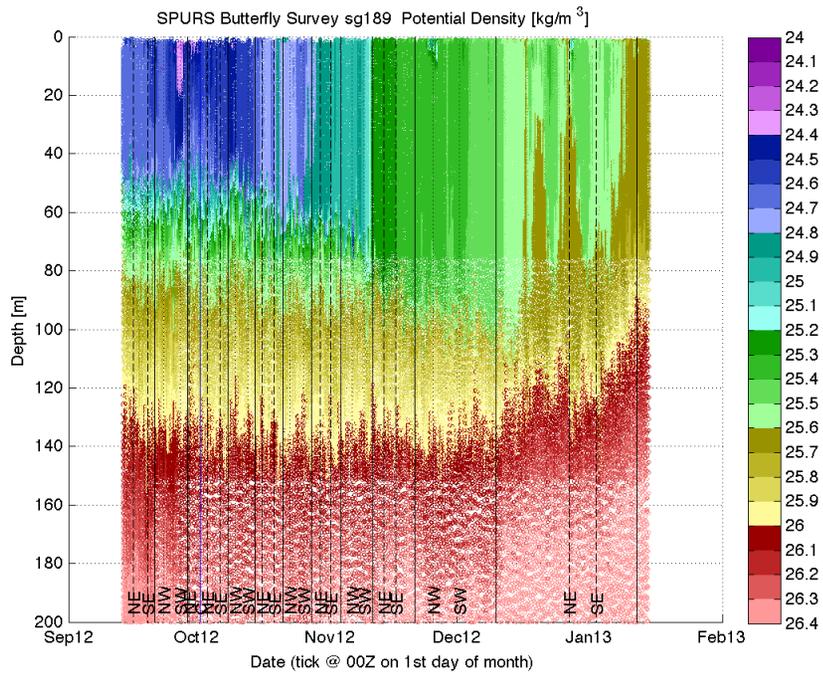


SPURS Butterfly Survey sg189 Temperature vs. Salinity by week

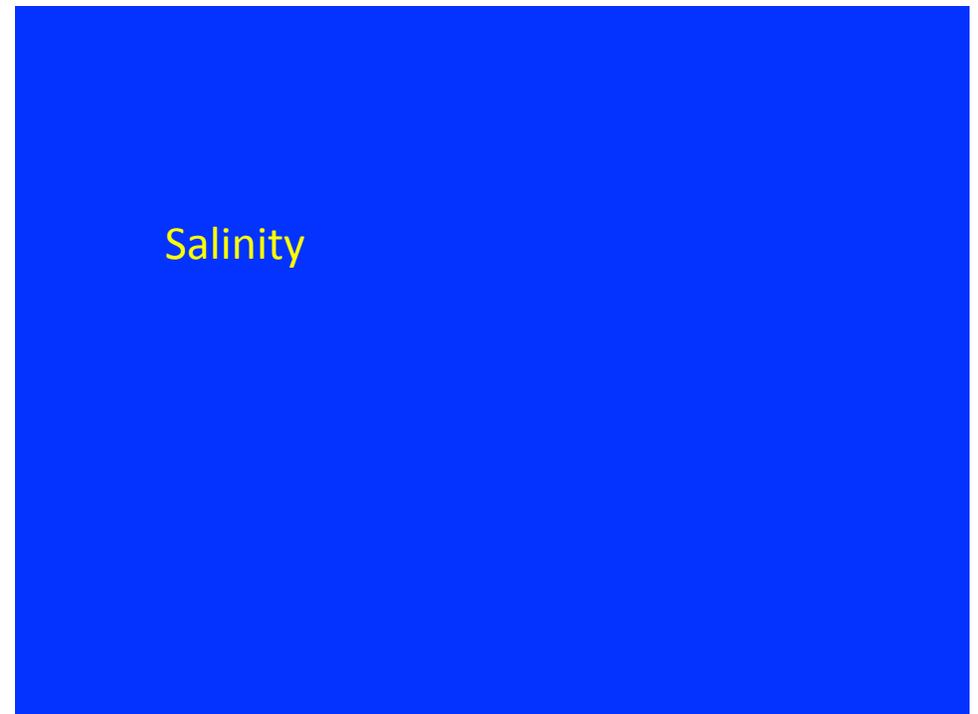
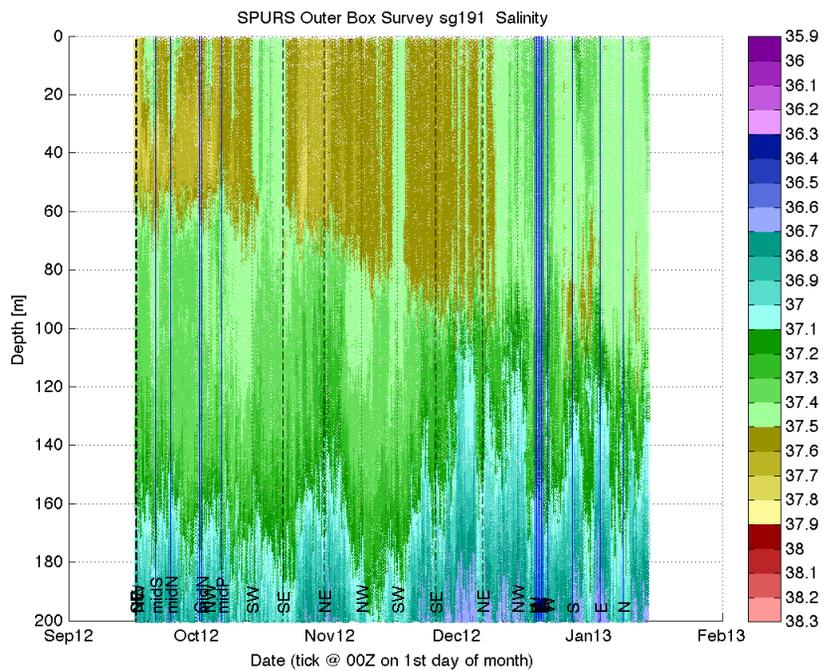
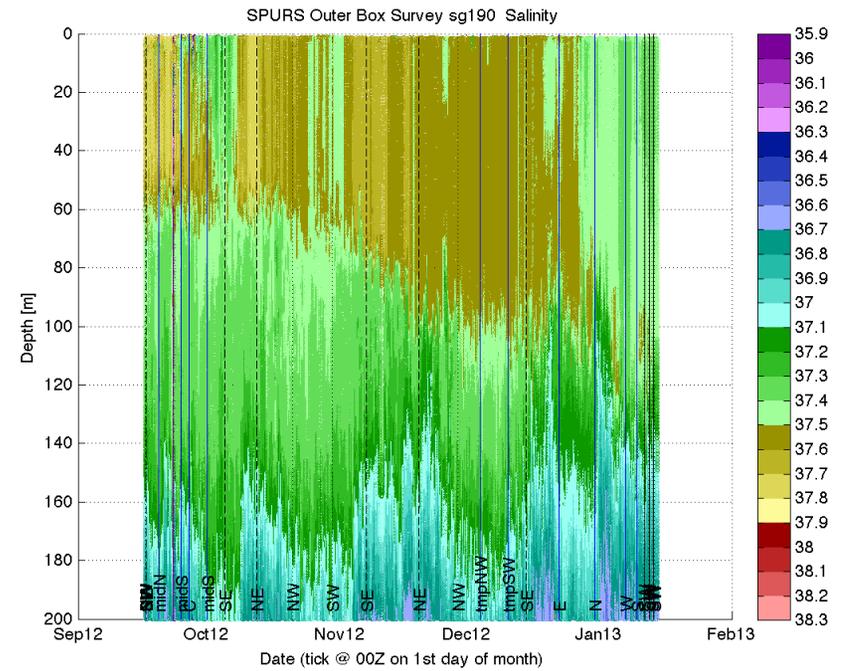
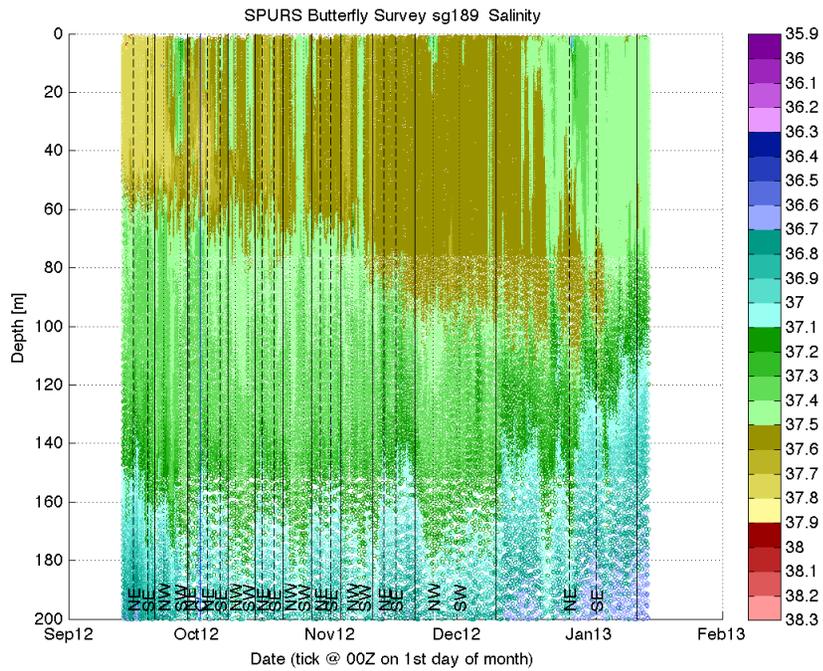


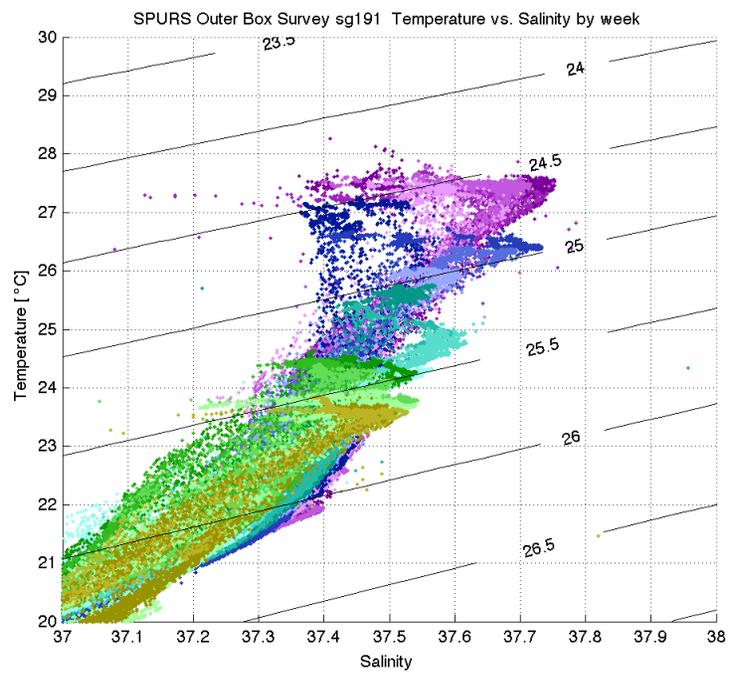
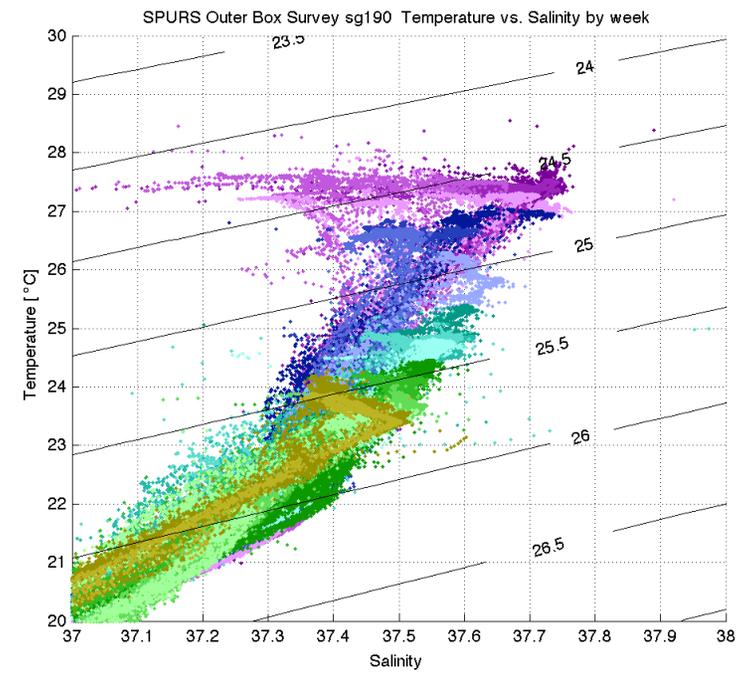
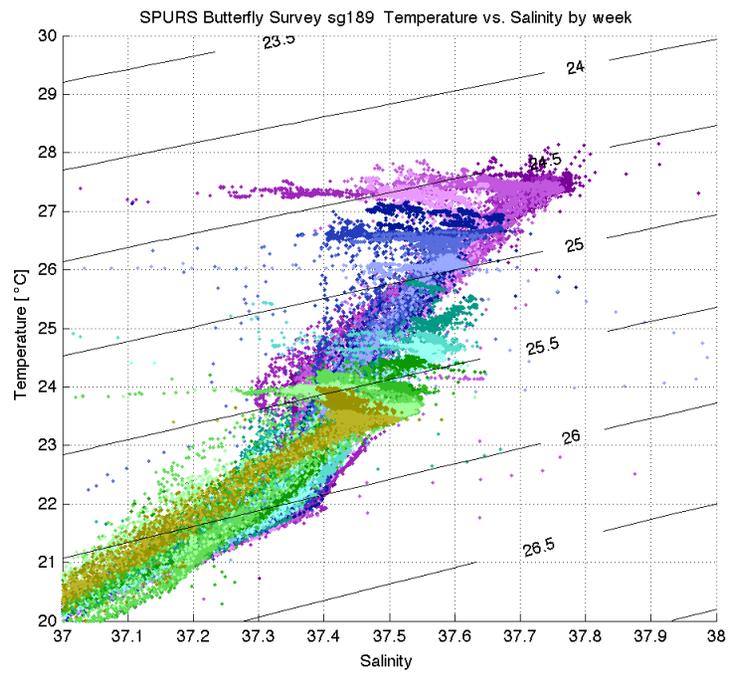
SPURS Butterfly Survey sg189 Temperature vs. Salinity by week

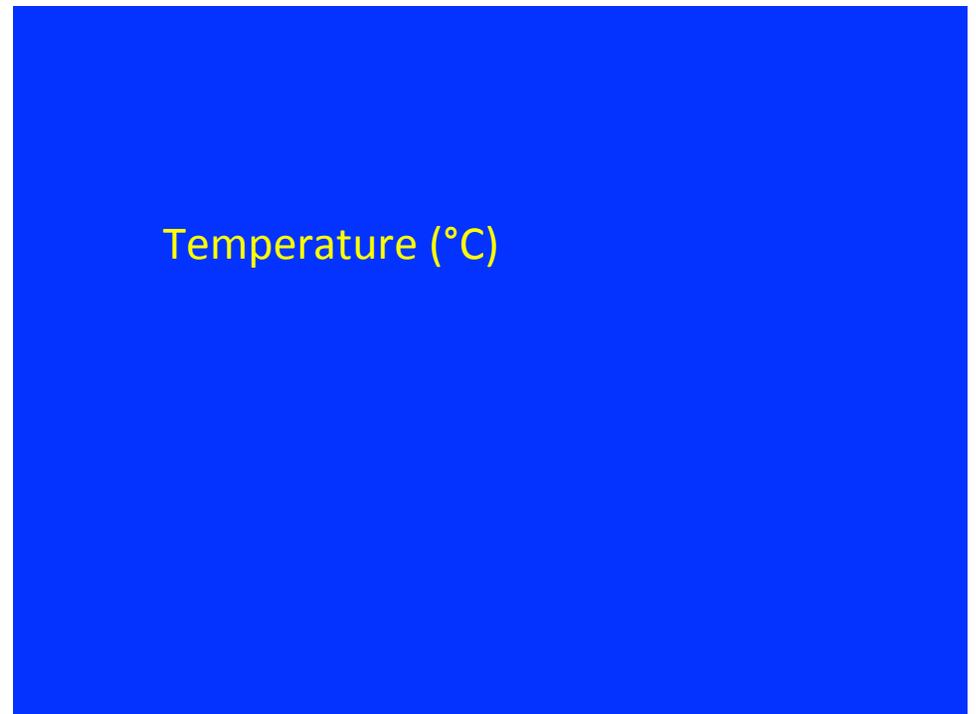
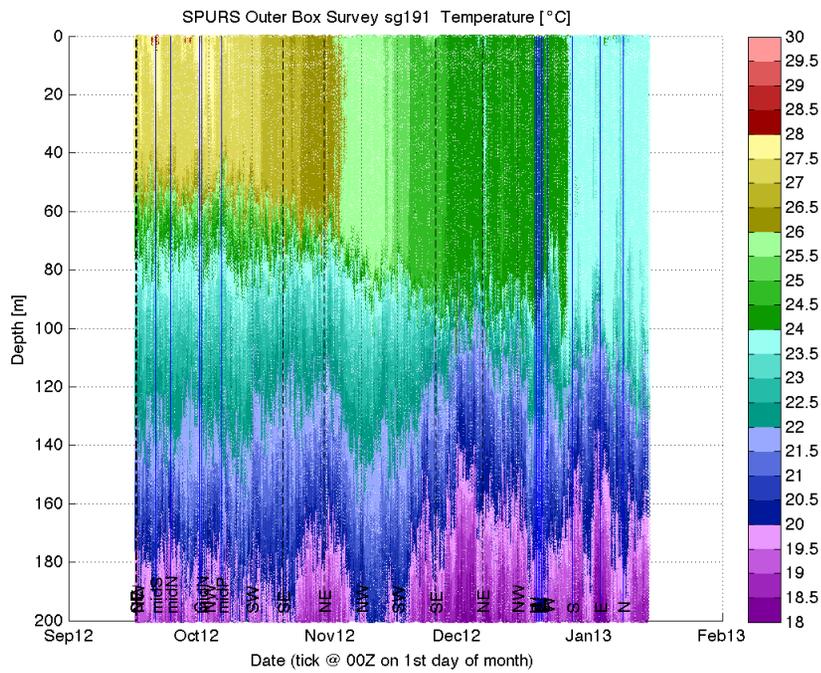
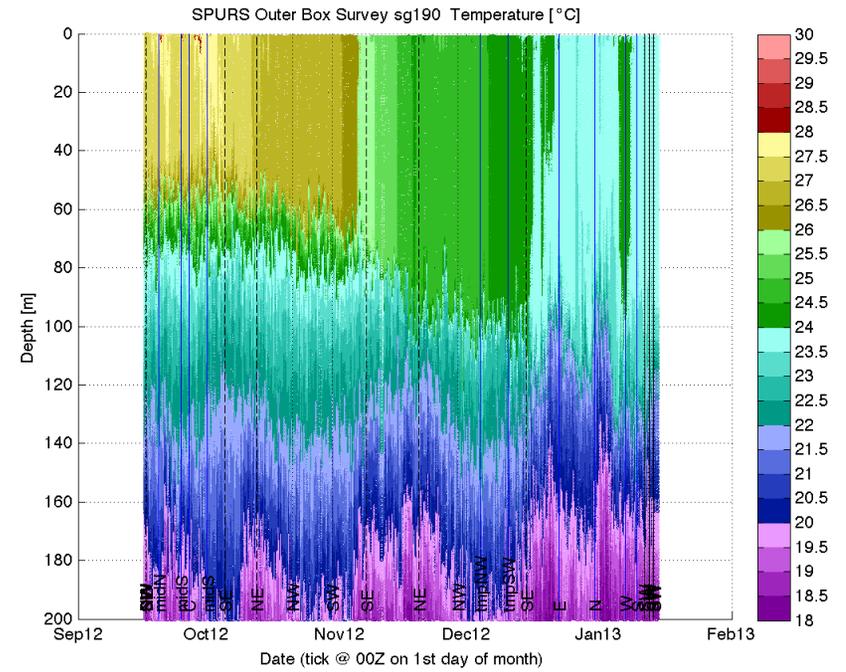
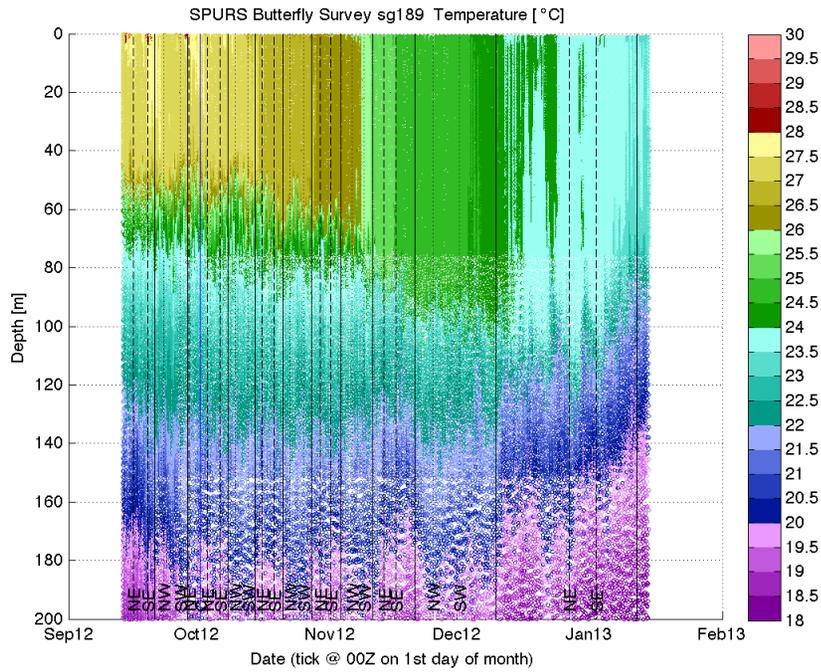


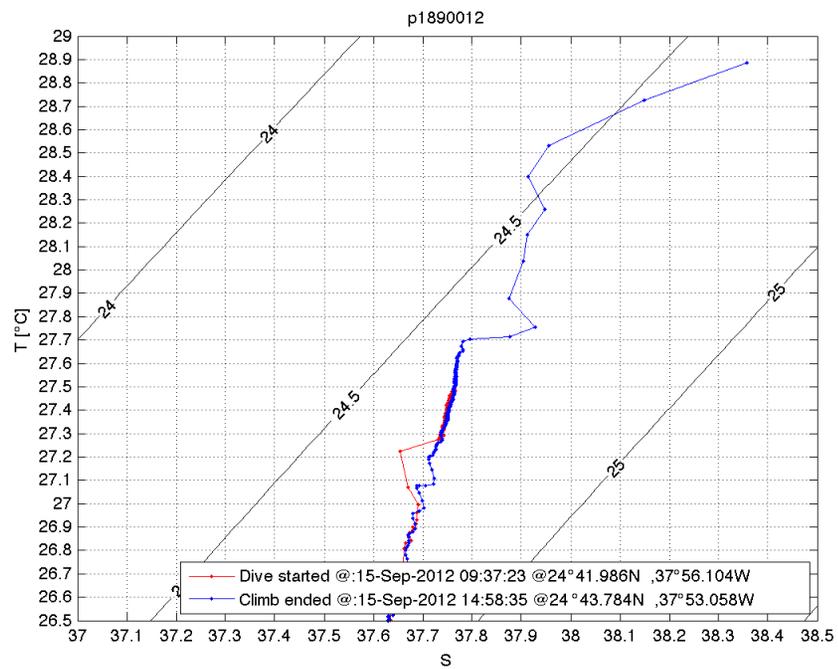
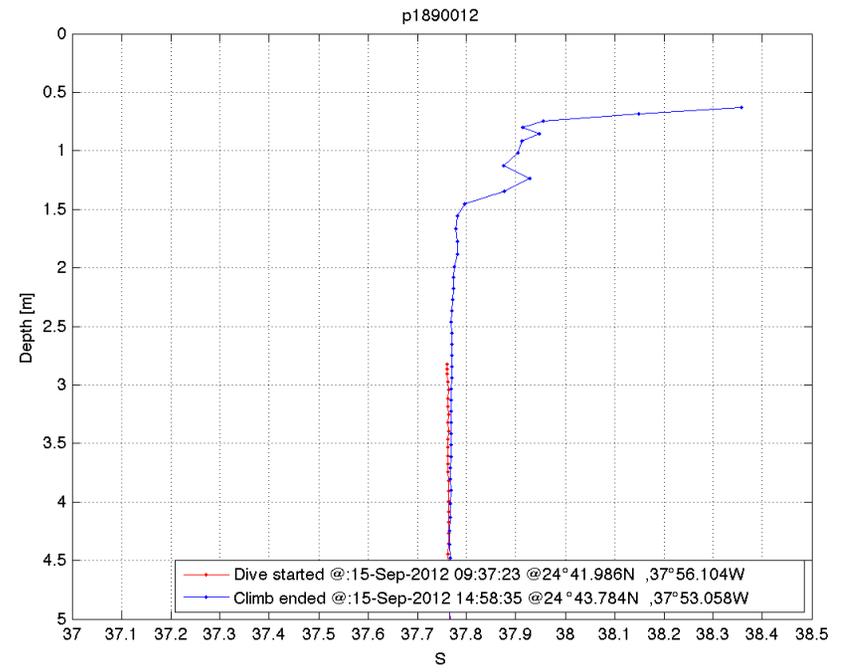
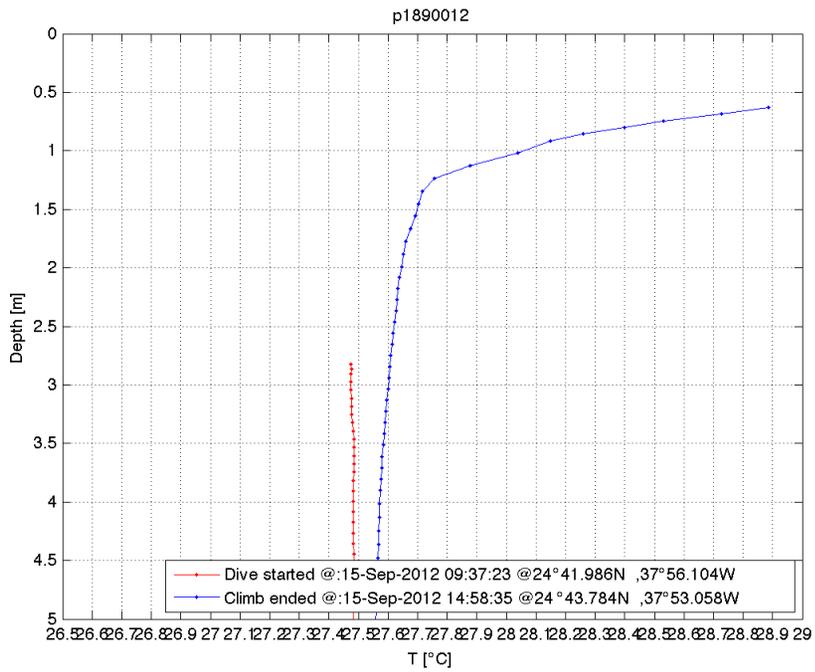


Potential Density [ $\text{kg/m}^3$ ]









SG189 dive cycle 12

# Next steps

- QA/QC data
- Recover sg189/190/191, launch 3 more
- Begin analysis: compare, extend story with moored, float, wave-tugger, Aquarius data sets
- Look forward to the evaporative half of the year!